

Listing of claims:

The following listing of claims replaces all previous claim listings in the application:

1. (Currently Amended). A method for transferring a set of files, the method comprising:
receiving at a destination fileserver metadata and a set of stub files associated
with the set of files ~~at a destination fileserver~~;
~~updating a location component in the destination fileserver to maintaining~~ a list of
repository nodes that are associated with each file in the set of files by updating a location
components in the fileserver; and,
replacing each stub file with ~~the~~ a full content of the file associated with the stub
file; and
~~while wherein said~~ replacing includes each stub file, ~~upon receipt of~~
receiving a client request for a specified file in the set of files;
~~if the full content of the specified file has not yet been transferred, then~~
replacing the stub file ~~for~~ associated with the specified file with a full content of the specified
file's full content;
~~wherein replacing the stub file for the specified file is a higher priority~~
~~task than replacing the stub files for non-requested files.~~
2. (Original). The method of claim 1 wherein the metadata is received at a destination
fileserver from a repository node.
3. (Currently Amended). The method of claim 1 ~~wherein the method further~~
comprisinging:

~~prior to receiving metadata, receiving~~ selecting said destination fileserver selection for
receiving said metadata and said stub files.

4. (Currently Amended). The method of claim 1 ~~wherein the method~~ further
comprisesing:

~~prior to receiving metadata, receiving~~ selecting a source-share selection of data for
receiving at said destination fileserver.

5. (Original). The method of claim 1 wherein the set of files is the set of files that have
been accessed during a specified period and wherein replacing each stub file comprises
recursively replacing the stub file associated with the file that was most-recently accessed until
all the stub files in the set of files have been replaced.

6. (Original). The method of claim 5 wherein the specified period is a most-recent period.

7. (Original). The method of claim 1 wherein the location component is a location cache.

8. (Original). A data protection system comprising:
a fileserver having:

a file system operative to store client files;

a fileserver API operative to communicate with a repository;

a fileserver file transfer module in communication with the file system and

operative to receive files for the file system from at least one repository; and

a recovery service in communication with the fileserver API and with the file system and operative to transfer a set of files, the recovery service having:

a receiving component operative to receive metadata and stub files associated with the set of files at the fileserver;

a location updating component in communication with the receiving component and operative to maintain a list of repository nodes that are associated with each file in the set of files; and

a stub file replacement component in communication with the receiving component and operative to replace each stub file with the full content of the file associated with the stub file.

9. (Currently Amended). The system of claim 8 ~~wherein the system~~ further comprising a filter driver operative to intercept input/output activity initiated by client file requests and to maintain a list of modified and created files since a prior backup;

a policy cache operative to store a protection policy associated with a share;

a mirror service in communication with the filter driver and with the policy cache, the mirror service operative to prepare modified and created files in a share to be written to a repository as specified in the protection policy associated with the share.

10. (Currently Amended). The system of claim 9 ~~wherein the system~~ further comprisesing:

a location cache in communication with the mirror service and operative to indicate which repository should receive an updated version of an existing file; and

a location manager coupled to the location cache and operative to update the location cache when the system writes a new file to a specific repository node.

11. (Currently Amended). The system of claim 8 ~~wherein the system further~~ comprisesing

a local repository having:

a local repository node API adapted for communicating with the fileserver API;

a local repository file transfer module in communication with the fileserver file transfer module and adapted for transferring files to the fileserver file transfer module; and

a data mover in communication with the local repository API and operative to supervise the replication of files from the local repository to the fileserver.

12. (Original). The system of claim 11 wherein the fileserver API is operative to communicate with a network and wherein the system further comprises:

a remote repository having:

a remote repository node API adapted for communicating with the network;

a remote repository file transfer module in communication with the local file transfer module and adapted for transferring files to the fileserver file transfer module; and

a data mover in communication with the remote repository API and operative to supervise the replication of files from the remote repository to the fileserver.

13. (Original). A method for storing data, the method comprising:

providing a fileserver having:

a file system operative to store client files;

a policy component operative to store a protection policy associated with a set of files;

a mirror service in communication with the policy cache, the mirror service operative to prepare modified and created files in a set of files to be written to a repository as specified in the protection policy associated with the set of files;

a fileserver API coupled to the mirror service and operative to communicate with a repository;

a fileserver file transfer module in communication with the file system and operative to transfer files from the file system to at least one repository;

determining a caching level as stored in the policy component; and

recursively, determining a utilization of the fileserver;

comparing the caching level against the utilization; and

if the utilization exceeds the caching level, then creating a file migration candidate list;

staging out one candidate file;

replacing the candidate file with a stub file; and

determining if the utilization of the fileserver still exceeds the caching level.

14. (Currently Amended). The method of claim 13 wherein ~~if said~~ determining if the utilization of the fileserver still exceeds the caching level further comprises ~~indicates that the utilization exceeds the caching level then~~ staging out another candidate file on the candidate list and again determining if the utilization of the fileserver exceeds the caching level.

15. (New) The method of claim 1, wherein said replacing the stub file for the specified file is a higher priority task than replacing the stub files for non-requested files.